

## NIEHS Laboratory of Molecular Carcinogenesis

### Molecular Toxicology and Carcinogenesis (HNV 00-23)

A postdoctoral position is available in the Molecular Toxicology Group to investigate molecular alterations and gene expression changes during liver and lung chemical carcinogenesis in mouse models. Particular emphasis is on oxidative stress mechanisms involved following treatment with nongenotoxic carcinogens. Current projects include cDNA microarray analysis on livers after carcinogenic doses of nongenotoxic carcinogens, related studies on markers of oxidative stress, and studies on the role of beta-catenin and Wnt signaling in mouse liver carcinogenesis. The overall work environment is highly interactive, and there are excellent analytical and other support services. Extensive experience in molecular biology and biochemistry is required. Applicants must have a Ph.D.

Applicants must not possess more than five years of postdoctoral experience. To apply, submit a cover letter, curriculum vitae, bibliography, and names of three references to the hiring scientist at the corresponding laboratory and mail drop in care of NIEHS, PO Box 12233, Research Triangle Park, NC 27709 USA. The cover letter should include the position title and HNV number. The NIEHS is an equal opportunity employer.

**Contact:** Theodora R. Devereux, Laboratory of Molecular Carcinogenesis, MD D4-04, 919-541-3241, fax: 919-316-4620, e-mail: [devereux@niehs.nih.gov](mailto:devereux@niehs.nih.gov)

## NIEHS Laboratory of Signal Transduction

### Ion Channel Regulation By Signal Transduction Pathways (HNV 00-22)

Postdoctoral positions available to investigate ion channel regulation by signal transduction pathways at the molecular level. Projects are available involving calcium and potassium selective channels in diverse cell types from the neuroendocrine and cardiovascular systems and range from structure/function studies of cloned channels to the role of environmental toxicants in degenerative diseases of the aging brain. Candidates must hold a Ph.D. or M.D. and publications demonstrating expertise in the application of molecular biology or patch clamp techniques to cell signaling or ion channel structure/function.

Applicants must not possess more than five years of postdoctoral experience. To apply, submit a cover letter, curriculum vitae, bibliography, and names of three references to the hiring scientist at the corresponding laboratory and mail drop in care of NIEHS, PO Box 12233, Research Triangle Park, NC 27709 USA. The cover letter should include the position title and HNV number. The NIEHS is an equal opportunity employer.

**Contact:** David L. Armstrong, Laboratory of Signal Transduction, MD F3-06, 919-541-0062, fax: 919-541-1898, e-mail: [armstro3@niehs.nih.gov](mailto:armstro3@niehs.nih.gov)

## NIEHS Laboratory of Experimental Pathology

### Molecular Pathology (HNV 00-20)

The focus of our laboratory is to extend the evaluation of environmental chemicals in rodent models from the cellular to the molecular level for both noncancer and cancer end points. The basis for this research is to provide a mechanistic understanding of the toxicologic or carcinogenic response in rodents and to provide a biologically based interpretation of its relevance to humans, and where applicable incorporate animal models of human disease. In noncancer research, our laboratory focuses on mechanisms of neuropathology and atherosclerosis, and in cancer research the focus is on mutations of oncogenes and tumor suppressor genes in rodent and human tumors. We are interested in a molecular biologist/toxicologist/pathologist with a background in medical sciences and with experience in PCR, RNA, and DNA analysis (other molecular techniques are desirable, as well). Excellent resources, numerous rodent samples and opportunities for collaboration are available.

Applicants must not possess more than five years of postdoctoral experience. To apply, submit a cover letter, curriculum vitae, bibliography, and names of three references to the hiring scientist at the corresponding laboratory and mail drop in care of NIEHS, PO Box 12233, Research Triangle Park, NC 27709 USA. The cover letter should include the position title and HNV number. The NIEHS is an equal opportunity employer.

**Contact:** Robert C. Sills, Laboratory of Experimental Pathology, MD A3-06, 919-541-0180, fax: 919-541-4714, e-mail: [sills@niehs.nih.gov](mailto:sills@niehs.nih.gov)

## NIEHS Laboratory of Computational Biology and Risk Analysis

### Toxicokinetic Modeling (HNV 00-17)

A Postdoctoral IRTA Fellow position is open in the Laboratory of Computational Biology and Risk Analysis, Toxicokinetic Modeling Section of the Division of Intramural Research at the NIEHS. The incumbent will do research on the development and validation of biologically based dose-response models that can be used to characterize human risks associated with exposure to hazardous environmental agents.

Candidates must be a U.S. citizen or permanent resident of the United States. Candidates with doctoral or equivalent degrees in pharmacology, toxicology, statistics, and mathematical modeling or closely related fields with up to six years postdoctoral research experience will be considered. Previous experience with physiological or biochemical modeling will be extremely beneficial. To apply, submit a cover letter, curriculum vitae, bibliography, and names of three references to the hiring scientist at the corresponding laboratory and mail drop in care of NIEHS, PO Box 12233, Research Triangle Park, NC 27709 USA. The cover letter should include the position title and HNV number. The NIEHS is an equal opportunity employer.

**Contact:** Ronald L. Melnick, Laboratory of Computational Biology and Risk Analysis, MD A3-06, 919-541-4142, fax: 919-541-1479, e-mail: [melnickr@niehs.nih.gov](mailto:melnickr@niehs.nih.gov)

# RUTGERS

## ASSISTANT PROFESSOR Environmental Health/ Environmental Science

Rutgers, The State University of New Jersey, is seeking applicants for a tenure track position in Environmental Sciences, with research interests related to the exposure and/or effects of environmental contaminants and human health. The successful candidate will teach courses in Environmental Health Science and/or Industrial Hygiene in the Environmental Sciences curriculum, develop a funded research program compatible with the interests of the Department of Environmental Sciences and the joint Rutgers/UMDNJ Environmental and Occupational Health Sciences Institute (EOHSI), and mentor masters and doctoral students. Preferred Ph.D. in Environmental Health Sciences or a closely related science or engineering discipline. Postdoctoral experience is desirable. Applications will be reviewed beginning February 28, 2001, and continue until the position is filled. Send résumé and names of 3 references to Dr. Barbara Turpin, Environmental Health Search Committee, 14 College Farm Rd., New Brunswick, NJ 08901.

For additional information:  
<http://www.envsci.rutgers.edu>

Rutgers University, by law and purpose, is committed to serving all people on an equal and non-discriminatory basis

# DIRECTOR



## Marine/Freshwater Biomedical Sciences Center

**Oregon State University (OSU)** in Corvallis, OR, seeks a Director for its Marine/Freshwater Biomedical Sciences Center. This NIEHS-supported Center comprises a number of investigators representing three Colleges at OSU and two other Universities. The Center's mission is to foster creative scientific activity among a diverse faculty that share a common interest in the development of the rainbow trout and other aquatic species for the study of carcinogenesis and its modulation by dietary and environmental factors and the chemistry and pharmacology of bioactive natural products from marine sources. The appointee will direct a vigorous, externally funded research program and will organize multi-investigator research initiatives that build upon existing strengths and pursue new opportunities. The Director serves under the Vice Provost for Research and directs an administrative and technical staff that provides research facilities and services for the Center. Professorial rank will be assigned depending upon qualifications. Salary and start-up package will be competitive and commensurate with the appointee's experience and qualifications. OSU, a Land, Sea and Space Grant University, is ranked as a Carnegie Doctoral/Research-Extensive institution.

**Minimum Qualifications:** Ph.D. in biological, biochemical, biomedical, toxicological or environmental sciences discipline; a distinguished record of scientific publications and evidence of scientific impact (citations and awards); evidence of leadership and experience in leading complex multidisciplinary programs; proven history of extramural funding through federal, foundation, and/or industry grants; and evidence of ability to communicate and interact effectively with colleagues, University administrators, students and the public.

To apply, send a complete curriculum vitae, statement of research interests, and the names, addresses and phone numbers of four references to: Professor Paul Jepson, Chair, MFBSC Search Committee, Integrated Plant Protection Center, Cordley Hall, Oregon State University, Corvallis, OR 97331. Phone: (541) 737-4733; Fax: (541) 737-3643; E-mail [jepsonp@bcc.orst.edu](mailto:jepsonp@bcc.orst.edu).

**Closing Date:** To ensure full consideration, all application materials must be received by April 1, 2001. Oregon State University is an Equal Employment/Affirmative Action Employer.

# Director

Division of Health Studies

- The Agency for Toxic Substances and Disease Registry (ATSDR)**, located in Atlanta, is the federal agency responsible for health-related issues pertaining to hazardous waste sites and emergency chemical releases. The agency is searching for a person to be the director of its Division of Health Studies. The director's duties include the following:
- managing a staff of >70 multidisciplinary scientific professionals;
  - managing a budget of approximately \$18 million;
  - directing multidisciplinary environmental public health and medical research programs, both nationally and internationally;
  - implementing the agency's human health research program, which focuses on (a) designing and conducting epidemiologic studies, surveillance projects, and activities and (b) establishing and maintaining chemical-specific subregistries of the National Exposure Registry;
  - developing agency policy guidance that integrates legislative mandates, public policy direction, state-of-the-art medical and environmental health science, and best practices from the public and private sector; and
  - consulting with stakeholders, partners, and interest groups to develop proposals in response to national environmental public health issues.

For more information about this position, access the ATSDR/CDC job information hotline ([www.atsdr.cdc.gov](http://www.atsdr.cdc.gov)) or call (770) 488-1725. Medical doctors should refer to announcement DE1-01-289; epidemiologists should refer to DE1-01-290. Announcements will open January 17, 2001. Applications must be postmarked by February 27, 2001. ATSDR is an Equal Opportunity Employer and provides a smoke-free environment.

**NIEHS** Laboratory of Toxicology

**Study of Environmental Mixtures Using Alternative Species (HNV 00-16)**

Studies involve interactions and biological significance of complex mixtures that are toxic to natural aquatic species. The objective is to identify mechanisms and factors that may potentiate the adverse effects of some environmental exposures and determine the relevance to other species and/or humans. The project is complex and will require a variety of analytical methodologies (molecular biology, biochemistry) as well as a combination of *in vivo* (amphibians and teleosts) and *in vitro* model systems. This position is open to citizens or permanent residents of the U.S. having a Ph.D. or M.D. degree.

Applicants must not possess more than five years of postdoctoral experience. To apply, submit a cover letter, curriculum vitae, bibliography, and names of three references to the hiring scientist at the corresponding laboratory and mail drop in care of NIEHS, PO Box 12233, Research Triangle Park, NC 27709 USA. The cover letter should include the position title and HNV number. The NIEHS is an equal opportunity employer.

**Contact:** James Burkhardt, Laboratory of Toxicology, MD C1-08, 919-541-3280, fax: 919-541-3137, e-mail: [burkhart@niehs.nih.gov](mailto:burkhart@niehs.nih.gov)

**NIEHS** Laboratory of Signal Transduction

**Signal Transduction by Inositol Phosphates (HNV 00-3)**

This laboratory is recruiting biochemists/molecular biologists to join a productive research team that applies biochemical, molecular, and electrophysiological techniques to the study of signal transduction by inositol phosphates. Novel signaling proteins are being identified, and their actions are being analyzed at a molecular level using several approaches, including mutagenesis and the manipulation of their cellular expression in appropriate cell models. A strong background in molecular biology and/or biochemistry is required. For details of the laboratory's recent achievements, see <http://dir.niehs.nih.gov/dirlst/shears.htm>.

Applicants must not possess more than five years of postdoctoral experience. To apply, submit a cover letter, curriculum vitae, bibliography, and names of three references to the hiring scientist at the corresponding laboratory and mail drop in care of NIEHS, PO Box 12233, Research Triangle Park, NC 27709 USA. The cover letter should include the position title and HNV number. The NIEHS is an equal opportunity employer.

**Contact:** Stephen B. Shears, Laboratory of Signal Transduction, MD F2-06, 919-541-1898, fax: 919-541-0793, e-mail: [shears@niehs.nih.gov](mailto:shears@niehs.nih.gov)

**NIEHS** Laboratory of Women's Health

**Female Reproductive Pathology Group (HNV 01-01)**

A postdoctoral position is available to investigate gene expression and regulation in ovarian function, dysfunction, and ovarian cancer in response to environmental stresses. Particular emphasis is given to signaling components in prostaglandin pathways in ovulation and luteolysis. The overall work environment is highly interactive and there are excellent analytical and animal support services. The candidate should be highly motivated and have good communication skills. Extensive experience in molecular biology and cell culture is essential.

Applicants must not possess more than five years of postdoctoral experience. To apply, submit a cover letter, curriculum vitae, bibliography, and names of three references to the hiring scientist at the corresponding laboratory and mail drop in care of NIEHS, PO Box 12233, Research Triangle Park, NC 27709 USA. The cover letter should include the position title and HNV number. The NIEHS is an equal opportunity employer.

**Contact:** Barbara J. Davis, Laboratory of Women's Health, MD A2-01, 919-541-2764, fax: 919 316-4626, e-mail: [davis1@niehs.nih.gov](mailto:davis1@niehs.nih.gov)

**NIEHS** Laboratory of Reproductive and Developmental Toxicology**Chromatin and Gene Expression Section (HNV 01-04)**

Two Postdoctoral Positions are available to investigate the mechanisms by which transcription factors modify chromatin structure to induce or repress transcription. Models will include, but not be limited to, the mouse mammary tumor virus (MMTV) promoter and the human breast and ovarian cancer susceptibility gene (BRCA1) promoter. Studies will focus on the molecular machines involved in chromatin remodeling and the post-translation modification of core and linker histones. Potential candidates should have a broad and deep knowledge of molecular biology with an emphasis on protein biochemistry and/or chromatin structure. Knowledge of molecular endocrinology will be advantageous. Applicants must have a Ph.D. or MD.

Applicants must not possess more than five years of postdoctoral experience. To apply, submit a cover letter, curriculum vitae, bibliography, and names of three references to the hiring scientist at the corresponding laboratory and mail drop in care of NIEHS, PO Box 12233, Research Triangle Park, NC 27709 USA. The cover letter should include the position title and HNV number. The NIEHS is an equal opportunity employer.

**Contact:** Trevor K. Archer, Laboratory of Reproductive and Developmental Toxicology, MD E4-06, 919-316-4565 fax: 919-316-4566, e-mail: archer1@niehs.nih.gov

**NIEHS** Laboratory of Molecular Carcinogenesis**Mammary Gland Biology & Neoplasia (HNV 00-13)**

A postdoctoral position is available in the Hormones & Cancer Group to investigate the regulation of normal growth and patterning of the mammary gland and pathways that contribute to the formation of neoplasms in this organ. Particular emphasis is given to growth factors and other signaling components that may influence breast cancer risk or the progression of early stages of breast tumor development. Current projects include studies of the fundamental properties of ErbB, IFG-1R, and Wnt in the mammary gland and how these proteins are influenced by endocrine hormones. The overall work environment is highly interactive and there are excellent analytical and animal support services. The candidate should be highly motivated and have good communication skills. Extensive experience in molecular or cell biology and cell culture techniques is highly desirable.

Applicants must not possess more than five years of postdoctoral experience. To apply, submit a cover letter, curriculum vitae, bibliography, and names of three references to the hiring scientist at the corresponding laboratory and mail drop in care of NIEHS, PO Box 12233, Research Triangle Park, NC 27709 USA. The cover letter should include the position title and HNV number. The NIEHS is an equal opportunity employer.

**Contact:** Richard P. DiAugustine, Laboratory of Molecular Carcinogenesis, MD D4-04, 919-541-3218, fax: 919-541-4704, e-mail: diAugustine2@niehs.nih.gov

**NIEHS** Laboratory of Pharmacology and Chemistry-Human Metabolism**Human CYPs and Drug Metabolizing Enzymes (HNV 01-03)**

Polymorphisms and mechanisms of induction of human drug-metabolizing enzymes are studied using molecular biology techniques. The applicant will study polymorphisms of these enzymes and mechanisms of induction using promoter systems. Experience in molecular biology and biochemistry is expected. Experience with molecular biology of drug-metabolizing enzymes would be useful but not required.

Applicants must not possess more than five years of postdoctoral experience. To apply, submit a cover letter, curriculum vitae, bibliography, and names of three references to the hiring scientist at the corresponding laboratory and mail drop in care of NIEHS, PO Box 12233, Research Triangle Park, NC 27709 USA. The cover letter should include the position title and HNV number. The NIEHS is an equal opportunity employer.

**Contact:** Joyce Goldstein, Laboratory of Pharmacology and Chemistry-Human Metabolism, MD A3-02, 919-541-4495, fax: 919-541-4107, e-mail: goldste1@niehs.nih.gov

**NIEHS** Laboratory of Molecular Genetics**DNA Replication Fidelity (HNV 01-02)**

To investigate molecular mechanisms of DNA polymerase fidelity using structure-function analyses both *in vivo* and *in vitro*, combining methods of microbial genetics, molecular genetics, and enzymology. Candidates should have strong analytical skills and a practical background in microbial genetics and/or molecular genetics.

To apply, submit a cover letter, curriculum vitae, bibliography, and names of three references to the hiring scientist at the corresponding laboratory and mail drop in care of NIEHS, PO Box 12233, Research Triangle Park, NC 27709 USA. The cover letter should include the position title and HNV number. The NIEHS is an equal opportunity employer.

**Contact:** John W. Drake, Laboratory of Molecular Genetics, MD E3-01, 919 541-3361, fax: 919-541-7613, e-mail: drake@niehs.nih.gov

**NIEHS** Laboratory of Structural Biology**Mass Spectrometric Characterization of Proteins (HNV 00-8)**

A position is available to study the application of mass spectrometry to protein structure analysis, including tertiary structure, protein complexes, and post-translational modifications. Candidates should have a Ph.D. in analytical chemistry (mass spectrometry), biochemistry (protein chemistry), or a related discipline.

Applicants must not possess more than five years of postdoctoral experience. To apply, submit a cover letter, curriculum vitae, bibliography, and names of three references to the hiring scientist at the corresponding laboratory and mail drop in care of NIEHS, PO Box 12233, Research Triangle Park, NC 27709 USA. The cover letter should include the position title and HNV number. The NIEHS is an equal opportunity employer.

**Contact:** Kenneth B. Tomer, Laboratory of Structural Biology, MD F0-03, 919-541-1966, fax: 919-558-7063, e-mail: tomer@niehs.nih.gov

**NIEHS** Laboratory of Pharmacology and Chemistry**Free Radical Metabolite Group (HNV 00-19)**

One or more postdoctoral positions in the biological ESR group are open immediately with a salary of \$28,000 or more depending on experience. Health insurance is included. Studies of protein-derived tyrosyl and tryptophanyl radicals and of nitric oxide in humans are currently active. *In vitro* and *in vivo* investigations of free radical metabolites of toxic chemicals and drugs are also active. Individuals with a background in ESR or immunology are invited to apply.

The applicant must have a Ph.D., or M.D. and not possess more than five years of postdoctoral experience. To apply, submit a cover letter, curriculum vitae, bibliography, and names of three references to the hiring scientist at the corresponding laboratory and mail drop in care of NIEHS, PO Box 12233, Research Triangle Park, NC 27709 USA. The cover letter should include the position title and HNV number. The NIEHS is an equal opportunity employer.

**Contact:** Ronald P. Mason, Laboratory of Pharmacology and Chemistry, MD FO-01, 919-541-3910, fax: 919-541-1043, e-mail: mason4@niehs.nih.gov

**NIEHS** Laboratory of Signal Transduction**ION Channel Physiology (HNV 01-05)**

Opportunity available immediately to study ligand-gated nicotinic ACh and/or serotonin 5-HT<sub>3</sub> receptor channels in hippocampal brain slices, cultured neurons, and/or clonal cell lines. The role these channels play in regulating hippocampal neuronal activity are investigated, as well as how intracellular signal transduction pathways (i.e., phosphorylation, Ca<sup>2+</sup>) modulate the physiological properties of these channels. Preference will be given to applicants interested in studying how these ion channels regulate synaptic transmission and plasticity in the brain. Applicants must have electrophysiological (preferably patch-clamp) experience; expertise in calcium imaging and/or molecular biological techniques would be a great asset. For additional information concerning the research projects and publications, visit the following Web site: <http://dir.niehs.nih.gov/dirlst/yakel.htm>.

Applicants must not possess more than five years of postdoctoral experience. To apply, submit a cover letter, curriculum vitae, bibliography, and names of three references to the hiring scientist at the corresponding laboratory and mail drop in care of NIEHS, PO Box 12233, Research Triangle Park, NC 27709 USA. The cover letter should include the position title and HNV number. The NIEHS is an equal opportunity employer.

**Contact:** Jerrel Yakel, Laboratory of Signal Transduction, MD F2-08, 919 541-1407; fax: 919-541-1898 e-mail: yakel@niehs.nih.gov

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Gwendolyn Dowd  
Advertising/Marketing Coordinator  
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Fax: 919-541-0763  
E-mail: [dowd@niehs.nih.gov](mailto:dowd@niehs.nih.gov)  
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